# Short CV – Patrizio Mariani

**Degrees**

- Laurea (~M.Sc.) (Environmental Science), University "Parthenope", Napoli, Italy (2000).
- PhD, (Marine Science and Engineering), Univeristy of Naples "Federico II", Italy (2005).

**Positions**

- PhD student, Zoological Station of Naples "A. Dohrn", Napoli, Italy (2001-2004).
- Research assistant, Polytechnic of Marche, Ancona, Italy (2004-2005).
- Guest researcher, Danish Institute for Fisheries Research (DIFRES) (2005-2006).
- Postdoc EurOceans Fellow, DIFRES (2006-2008).
- Project scientist, National Institute of Aquatic Resources (DTU Aqua), Technical University of Denmark (2008-2009).
- Researcher (Ecological Modelling), Section for Population Ecology and Genetics, DTU Aqua (since 2009).

**Research area**

The interaction between physical and biological process in marine ecosystems (physical-biological coupling). Numerical modeling of physical and biological processes both at small (individual level) and large (regional and global) scales, with particular emphasis on: plankton and fish ecology, population dynamics in plankton systems, adaptive behaviour, turbulence and dispersion processes in fish larvae. Recently, application of GPU computing technology for individual based- and traits based-modelling of marine systems.

**Distinctions and awards**

Grant from the Centre for Development of Human Resources and Quality Management (SCKK) (2009).

**Memberships of scientific committees, 2006-present**

Executive member of the EurOceans Consortium (since 2010); Member of the Danish Marine Ecology Modelling Centre (since 2008); Working group on early life stages CLIOTOP (Climate change on oceanic top predators) (2007-2009).

**Review, 2006-present**

Reviewer for various journals, e.g. Prog Oceanogr, Mar Biol, Mar Ecol-Prog Ser, Limnol Oceanogr, Oecologia.

**Peer reviewed journal publications:** 11. **Books and book chapters:** 2. **International conferences:** 5.

**Advisory tasks, 2006-present**

Invited member of the Advisory Board meeting of Marine Genomics for You (Barcelona, June 2011).

**Grants, 2006-present**

- EU FP6 Networks of Excellence: Ecology and modelling of bluefin tuna early life stages in the Mediterranean Sea (EuroOceans) (2006-2008; postdoctoral fellowship).
- International Centre for Theoretical Physics (ICTP): Advanced School in Complexity, Adaptation and Emergence in Marine Ecosystem, Trieste (17-28 October 2010; (co-)organizer).
- Foresight EurOceans Workshop Grant: Oceans Science meets -omics", Napoli (7-10 November 2010; (co-)organizer).
- EU FP7: Coordination actions to support FP6 NoEs durable integration (Euromarine) (since 2010; PI and coordination team WP6).
- EU FP7: Basin-scale Analysis, Synthesis, and Integration of oceanographic and climate-related processes and the dynamics of plankton and fish populations in the North Atlantic Ocean (Euro-Basin) (since 2011; scientific contribution to WP5).
- EU FP7: Towards Coast to Coast Networks of marine protected areas, coupled with sea-based wind energy potential (COCONET) (under negotiation 2011; PI).

**Other activities**

Several collaborations and teaching appointments at DTU Aqua (e.g. Matemathical Biology, Ecological modelling, Fishery and Oceanography, Oceanography) and with University "Parthenope" (Naples, Italy) and Zoological Station "A. Dohrn" (Naples, Italy). Teaching contributions include lectures on Coastal Risks, graduate level, "Parthenope" University (since 2008); 30+ hours lectures on Biological Oceanography, University of Naples "Parthenope" (2000-2003);
15 lectures on Numerical Analyses and Applications, graduate level, University of Naples "Parthenope" (2001-2003).